

## UTAH DIVISION OF OIL GAS AND MINING

REMARKS: WELL LOG — ELECTRIC LOGS — FILE X WATER SANDS — LOCATION INSPECTED — SUB. REPORT/ABD.DATE FILED 1-24-79

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO. 11-0145459

INDIAN

DRILLING APPROVED: 1-23-79

SPUDDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: Location abandoned Well Never Drilled 4-2-81FIELD: Undesignated 3/7UNIT: Devils PlaygroundCOUNTY: UintahWELL NO. FEDERAL 12-8API NO: 43-047-30567LOCATION 2052'FT. FROM (N) ~~XX~~ LINE.567'FT. FROM ~~XX~~ (W) LINE.SW NW1/4 - 1/4 SEC. 8

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				9S	24E	8	PACIFIC TRANSMISSION SUP.

12-10-90. Talked with  
Per. Dir. He said they  
may Location abandon this.

# FILE NOTATIONS

Entered in NID File ..... ✓  
Location Map Pinned ..... ✓  
Card Indexed ..... ✓

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

## COMPLETION DATA:

Date Well Completed .....  
GW ..... WW ..... TA .....  
GW ..... OS ..... PA .....

Location Inspected .....  
Bond released .....  
State or Fee Land .....

## LOGS FILED

Driller's Log .....  
Electric Logs (No.) .....  
E ..... I ..... Dual I Lat ..... GR-N ..... Micro .....  
BHC Sonic GR ..... Lat ..... MI-L ..... Sonic .....  
CBLog ..... CCLog ..... Others .....

7-1-92 JCR

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. K 0145459	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTED OR TRIBE NAME Devils Playground	
2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY			7. UNIT AGREEMENT NAME Federal	
3. ADDRESS OF OPERATOR P.O. Box 3093, Casper, Wyoming 82602			8. NAME OF LEASE Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2052' FNL, 567' FWL, SW NW Section 8, T9S, R24E At proposed prod. zone S.L.B. & M.			9. WELL NO. 12-8	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 54 miles SE of Vernal, Utah			10. FIELD AND POOL, OR WILDCAT Undesignated	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2052'			11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Section 8, T9S, R24E	
16. NO. OF ACRES IN LEASE 2240 (+)			12. COUNTY OR PARISH Uintah	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160			13. STATE Utah	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7000'			14. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5141' GR			22. APPROX. DATE WORK WILL START*	

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	54.5	150	175 Sxs.
12-1/4	9-5/8	36.0	3000	500 Sxs.
7-7/8	4-1/2	11.6	7000	400 Sxs.

Operator proposes to drill to and test the Mesaverde formation. Intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached prognosis and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Containment Data Specifications. If commercial production is encountered, production casing will be run and cemented to adequately protect all potentially productive intervals.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: 1-23-79 JAN 19 1979  
BY: Clem B. Light

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Petroleum Engineer DATE January 15, 1979

(This space for Federal or State office use)

PERMIT NO.

43-047-30567

APPROVAL DATE

APPROVED BY

TITLE

DATE

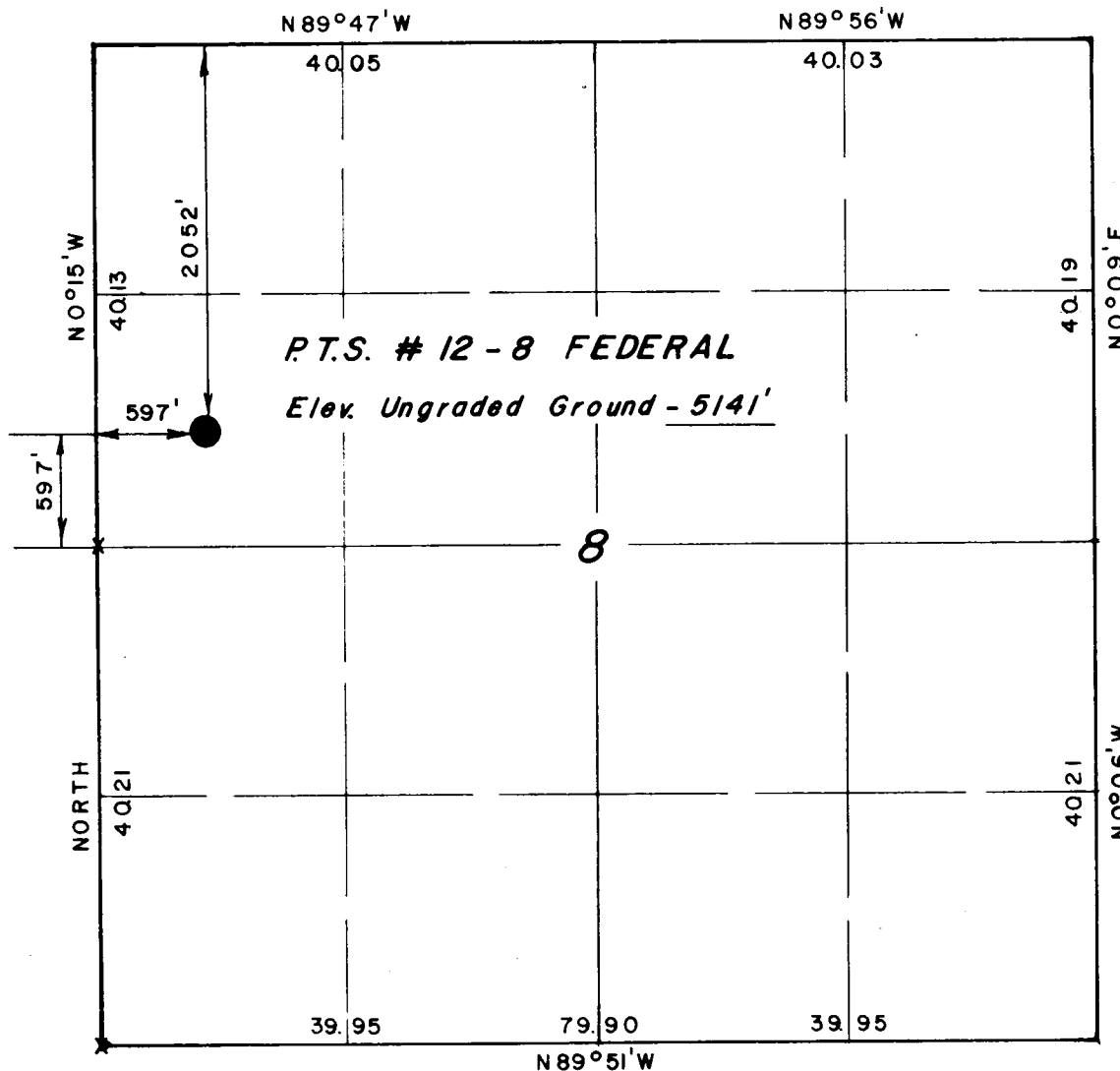
CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC, UT; 1-Div. of O&M, SLC, UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

**T9S, R24E, S.L.B. & M.**

PROJECT  
**PACIFIC TRANSMISSION SUPPLY CO.**

Well location, **P.T.S. # 12-8 FEDERAL**  
located as shown in the SW 1/4 NW 1/4  
Section 8, T9S, R24E, S.L.B. & M. Uintah  
County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR  
REGISTRATION NO **3154**  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
P.O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	12/6/78
PARTY	L.D.T. D.S. W.J. S.M.	REFERENCES	GLO Plat
WEATHER	Cold & Overcast		PACIFIC TRANSMISSION

WELL PROGNOSIS  
PTS #12-8 FEDERAL  
Uintah County, Utah

LOCATION: 2052' FNL, 567' FWL, (SW NW), Section 8, T9S, R24E

OPERATOR: Pacific Transmission Supply Company

LEASE: 0145459

DRILLING CONTRACTOR: To be selected.

FORMATION TOPS AND DATUM:

Formation	Depth	Datum
Green River		
Parachute Creek	1601	+3540
H-Marker	3061	+2080
Wasatch	4161	+ 980
Mesaverde	5931	- 790
TOTAL DEPTH	7000	

SAMPLE COLLECTION: Collect cutting samples at ten (10) foot intervals from under surface to total depth. Samples will be collected by drilling crews for the wellsite geologist. Two (2) sets of samples will be collected in the oil shale section of the Green River formation with one (1) set to be sent to the Bureau of Mines, Laramie Energy Research Center, 9th and Lewis, Laramie, Wyoming 82070; Attention: Mr. Pete Dana. Frequency of sample collection may be changed at the wellsite geologist's discretion.

LOGGING PROGRAM: Dual Induction Laterolog, Borehole Compensated Sonic with Gamma Ray and Caliper, Compensated Neutron-Formation Density with Gamma Ray and Caliper.

MUD LOGGING: Portable mud logging unit operated by wellsite geologist from below surface casing to total depth.

DRILLSTEM TESTING: All significant shows of oil and gas will be drillstem tested. Use floor manifold with positive choke assembly, hydraulic jars, safety joint, reverse circulating sub, sampler assembly and dual packers. Collect samples of all fluids recovered for further analysis.

MUD PROGRAM:

Interval (Feet)	Mud Weight (lbs./gal.)	Viscosity (Sec./qt.)	Fluid Loss (Ml/30 min.)	Mud Type
0-150	8.4-9.0	26-45	No Control	Water
150-3000	8.7-9.0	26-30	No Control	Salt Water (40-60000 ppm NaCl)
3000-6000	8.7-9.0	26-30	No Control	Salt Water (40-60000 ppm NaCl)
6000-TD	9.1-9.6	32-45	12-15cc	Salt Mud (60-80000 ppm NaCl)

DRILLING PROGRAM:

- 1) Move in air percussion rig. Drill 17-1/2" hole and set  $\pm 150'$ , 13-3/8" surface casing. Cement to surface.
- 2) Move in rotary drilling rig and drill 12-1/4" hole to  $\pm 3000'$ . Log and prepare hole for intermediate casing.
- 3) Set and cement  $\pm 3000'$ , 9-5/8", 36.0#, K-55 casing. WOC.
- 4) Drill 7-7/8" hole to total depth. Perform drillstem testing as necessary. Log and evaluate well.
- 5) In the event productive intervals are present, run 4-1/2", 11.6#, N-80 casing and cement as necessary across potential zones.
- 6) Release rotary drilling rig and develop completion procedure.

PERSONNEL & MAILING INFORMATION:

D. E. Beardsley, Manager of Operations  
Pacific Transmission Supply Company  
P.O. Box 3093  
Casper, Wyoming 82602  
Telephone: Office (307) 265-1027  
Home (307) 234-7666

E. E. Mulholland, Operations Engineer  
Pacific Transmission Supply Company  
P.O. Box 3093  
Casper, Wyoming 82602  
Telephone: Office (307) 265-1027  
Home (307) 265-4191

R. J. Firth  
Pacific Transmission Supply Company  
64 East Main Street  
Vernal, Utah 84078  
Telephone: Office (801) 789-4573  
Home (801) 789-5575

NOTIFICATION OF SHOWS, DST'S & UNUSUAL PROBLEMS:

D. E. Beardsley	Office: (307) 265-1027	Home: (307) 234-7666
J. L. Wroble	(303) 571-1662	(303) 770-2667
E. E. Mulholland	(307) 265-1027	(307) 265-4191
R. J. Firth	(801) 789-4573	(801) 789-5575

DISTRIBUTION OF INFORMATION:

Pacific Transmission Supply Company  
P.O. Box 3093  
Casper, WY 82602  
Attn: D. E. Beardsley

Pacific Transmission Supply Company  
64 East Main Street  
Vernal, UT 84078  
Attn: R. J. Firth

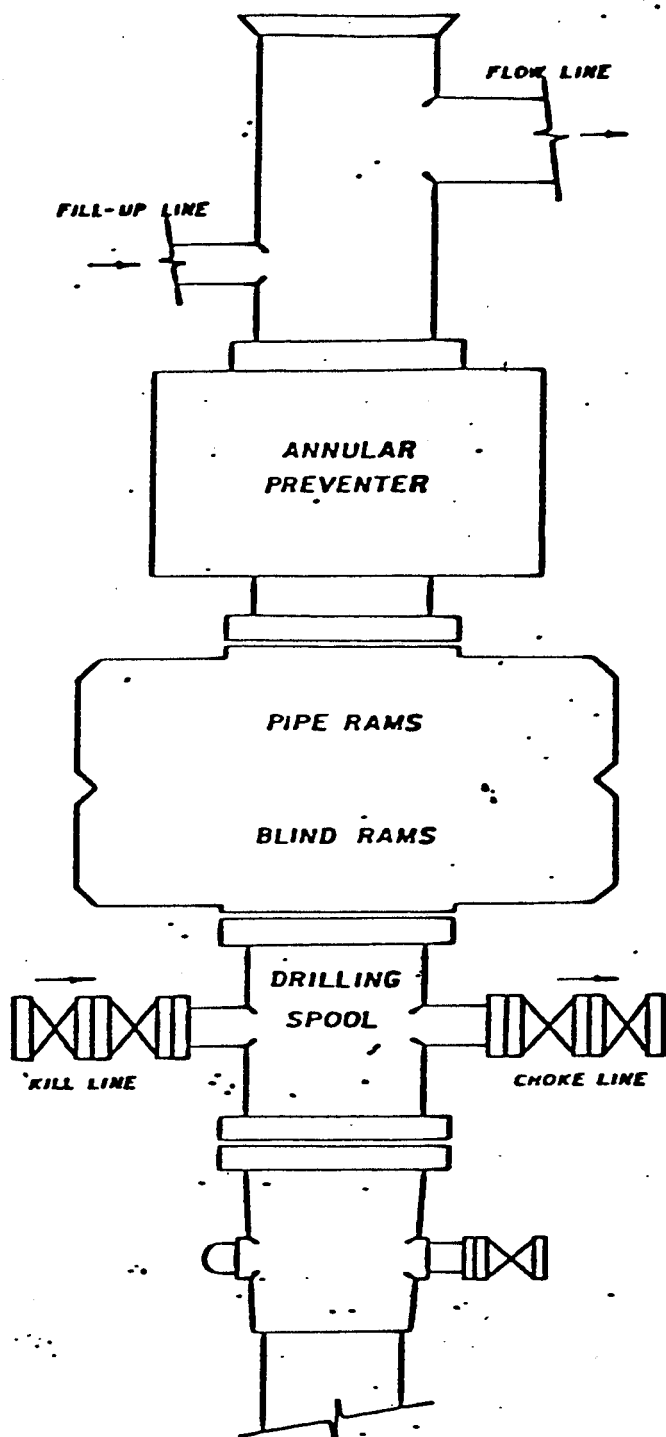
Pacific Transmission Supply Company  
717 Seventeenth Street, Suite 2300  
Denver, CO 80202  
Attn: J. L. Wroble

U. S. Geological Survey  
8426 Federal Building  
Salt Lake City, UT 84138  
Attn: E. W. Guynn

State of Utah  
Division of Oil, Gas, & Mining  
1588 West North Temple  
Salt Lake City, UT 84116  
Attn: Chief Petroleum Engineer

# PACIFIC TRANSMISSION SUPPLY

## BOP AND PRESSURE CONTAINMENT DATA



1. BOP equipment shall consist of a double gate, hydraulically operated preventer with pipe and blind rams or two single ram type preventers, one equipped with pipe rams, the other with blind rams and an annular type preventer, all to be 10" - 3000 W.P.
2. BOP's are to be well-braced with hand controls extended clear of substructure.
3. Accumulator to provide closing pressure in excess of that required with sufficient volume to operate all components.
4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator and/or flow sensors with alarms.
5. All BOP equipment, auxiliary equipment stand pipe and valves and rotary hose to be tested to the rated pressure of the BOP's at time of installation and every 30 days thereafter. BOP's to be mechanically checked daily.
6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.



PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

for

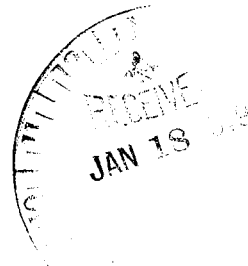
Well Location

P.T.S. #12-8 Federal

Located In

Section 8, T9S, R24E, S.L.B. & M.

Uintah County, Utah



1. EXISTING ROADS

See attached Topographic Map "A", to reach the Pacific Transmission Supply Company well location, P.T.S. #12-8 Federal, located in Section 8, T9S, R24E, S.L.B. & M., from Vernal, Utah.

Proceed East out of Vernal, Utah along U.S. Highway 40, 24 miles to the junction of this Highway and Utah State Highway 45 to the South; proceed South along this road 22 miles to Bonanza, Utah and the junction of this road and a gravel surface road to the West; proceed Westerly along this road 5.5 miles to the junction of this road and a road to the North; proceed Northerly along this road 0.8 miles to an existing well and the proposed access road to be discussed in Item #2.

There is no construction anticipated on any portion of the above described road. It will meet the standards necessary, for the hauling of equipment during the drilling and production of this well.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing access road described in Item #1 in the NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 18, T9S, R24E, S.L.B. & M., and proceeds in a Northeasterly direction 1.9 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be  $1\frac{1}{2}$  to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during the construction.

If deemed necessary by the local governmental agencies or their representatives turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet ends.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

2. PLANNED ACCESS ROAD - continued

The terrain that is traversed by this road is relatively flat and crosses some small hills and washes and is vegetated with sparse amounts of sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of Pacific Transmission Supply Company, well within the Section).

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no Pacific Transmission Supply Company flow gathering, injection or disposal lines within a one mile radius of this location.

In the event production is established, plans for a gas flow line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

The rehabilitation of the disturbed area that is not required for the production of this well, will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water for this well will be hauled by truck from Bonanza, Utah from a water well owned by American Gilsonite, approximately 7 miles to the East from the proposed well site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

The pits will have overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling this reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

All waste and garbage will be hauled to a sanitary land fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. See location layout sheet and Item #9. When all drilling production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pit will be completely fenced and wired and overhead flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

10. PLANS FOR RESTORATION OF SURFACE - continued

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Item #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A")

The area is a basin formed by the Blue Mountain Plateau and Green River to the North and White River and Roan Plateau to the South.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstones, conglomerates, and shale deposits are extremely common to the area.

The geologic structure of the area that are visible are of the Uintah Formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger Alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) type soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The White River to the South of the location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area - (See Topographic Map "B").

P.T.S. #12-8 Federal is located at the base of the relatively unlevel hill side which slopes to the North.

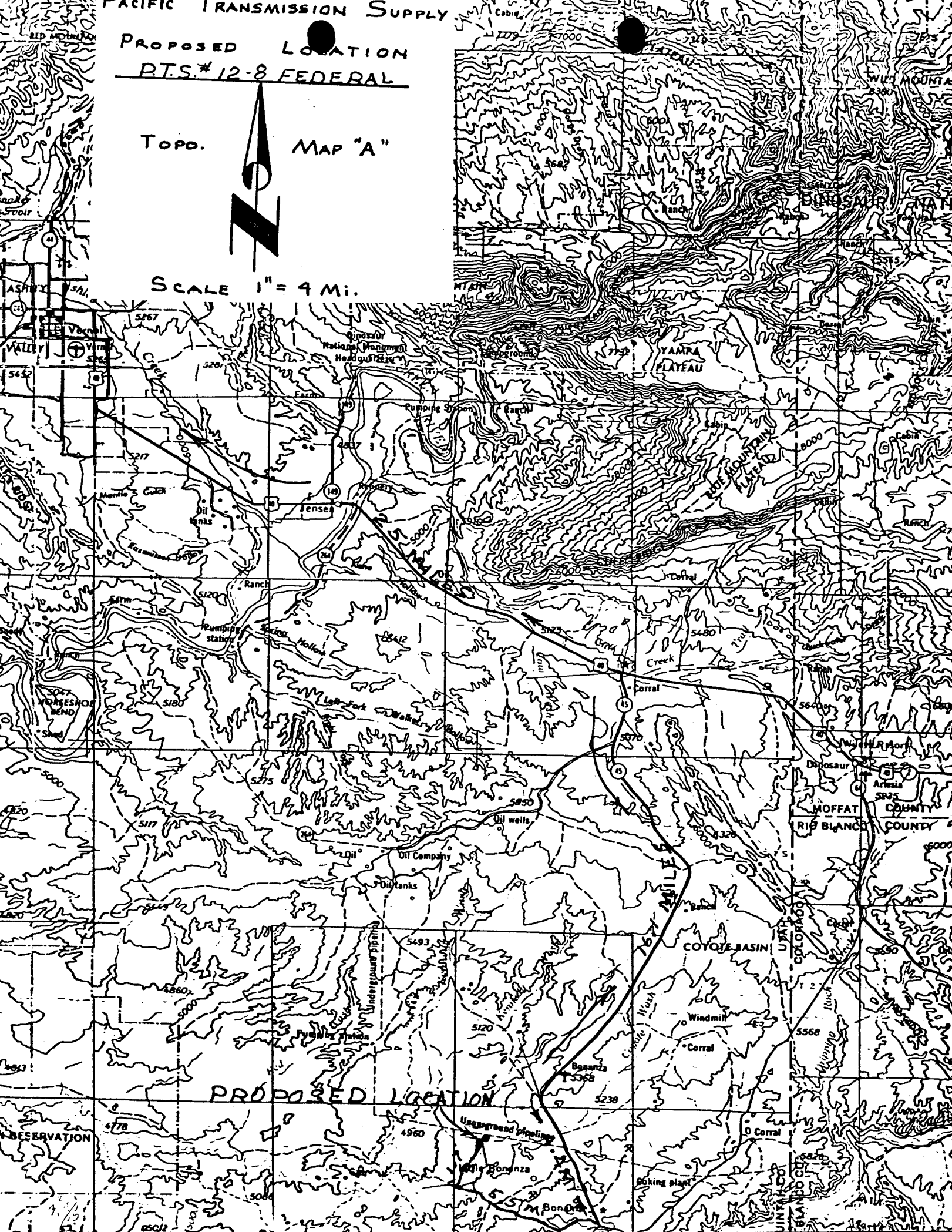
The majority of the drainages in the area around this location run in a Northerly direction into Coyote Wash which is a tributary to the White River and are non-perennial streams.

Торр.

Map "A"



SCALE 1" = 4 Mi.



PACIFIC TRANSMISSION SUPPLY COMPANY  
P.T.S. #12-8 Federal  
Section 8, T9S, R24E, S.L.B. & M.

11. OTHER INFORMATION - continued

The terrain in the vicinity of the location slopes to the North from a small ridge through the location site at approximately a 2% grade into a small wash to the Northwest.

The vegetation in the immediate area surrounding the location site is predominately sagebrush and grasses. There are no occupied dwelling or other facilities of this nature in the general area. There are no visible archaeological, historical, or culturaleal sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

R.J. Firth  
64 East Main  
Vernal, Utah 84078

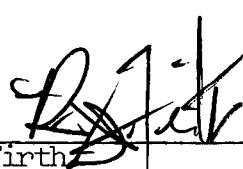
Tele: 789-4573

13. CERTIFICATION

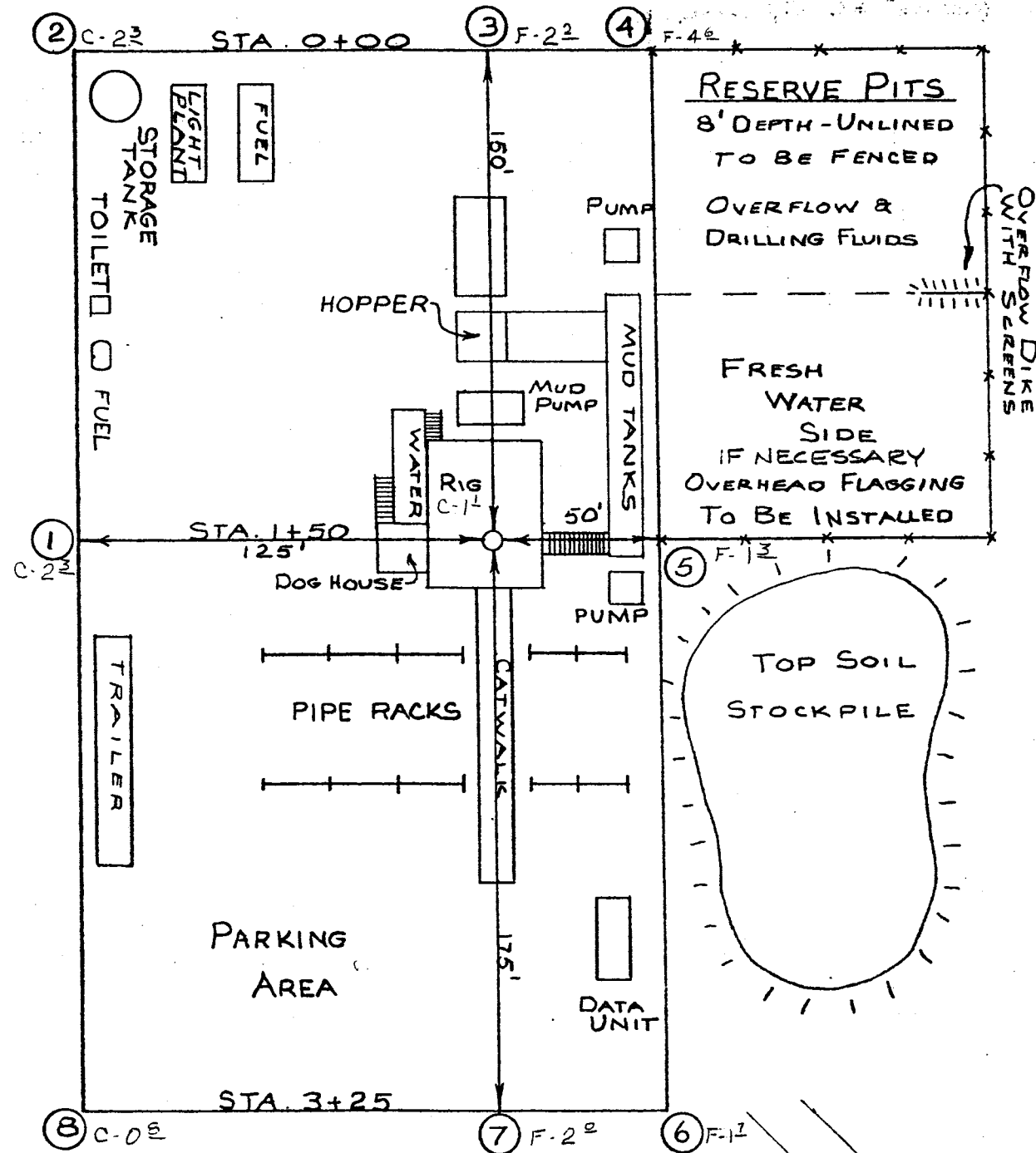
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Company and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

DATE

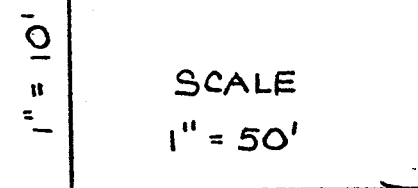
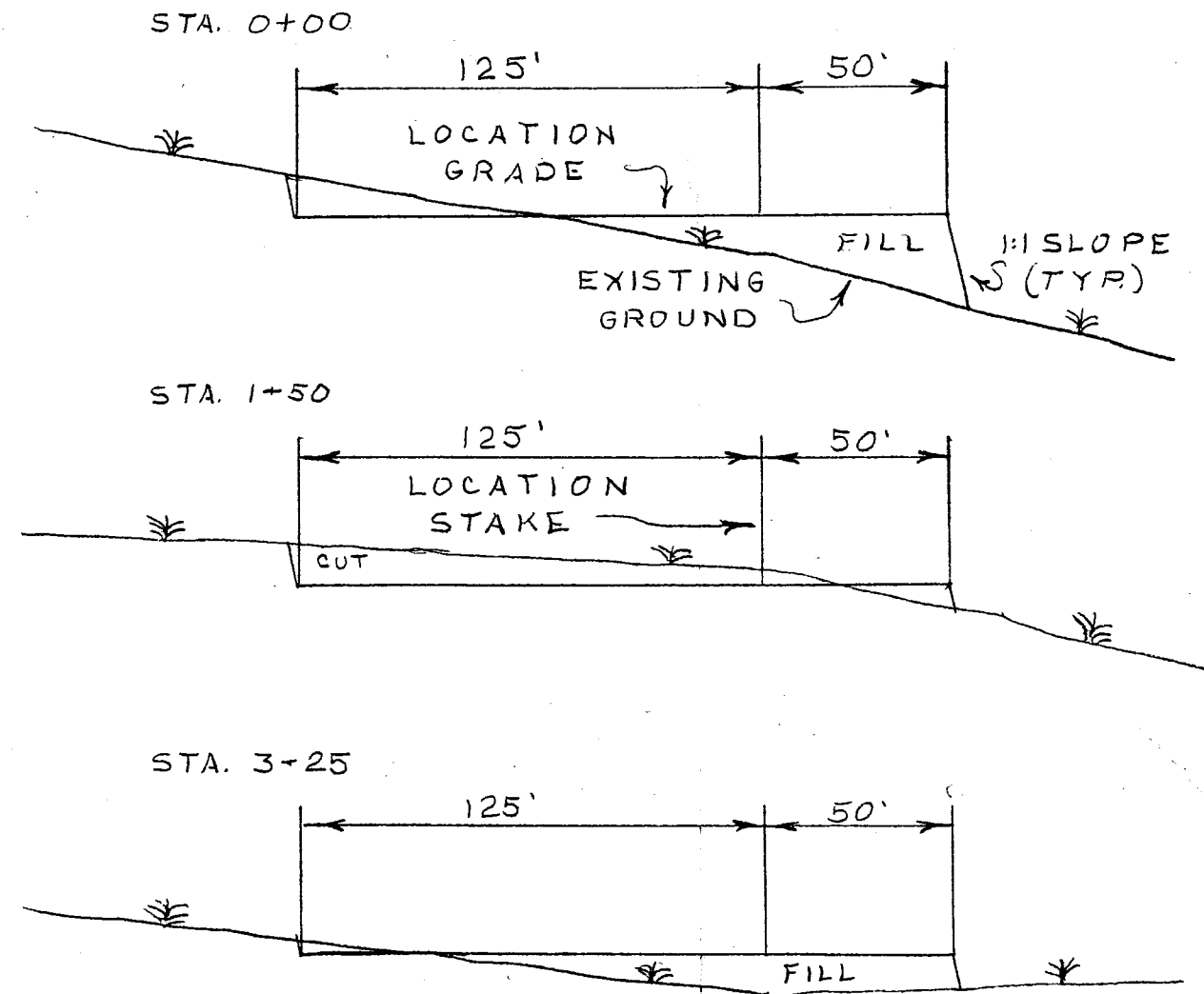
1/15/99

  
R.J. Firth  
Petroleum Engineer

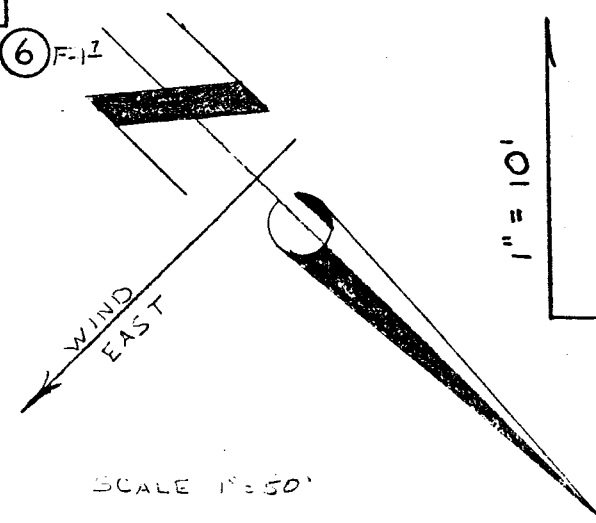
P.T.S. # 12-B FEDERAL  
LOCATION LAYOUT & CUT SHEET  
SEC. 8, T9S, R24E, S.L.B. & M.



CROSS SECTIONS



SOILS LITHOLOGY  
-NO SCALE-



APPROX YARDAGES

CUT- 1,608 CU. YDS.  
FILL- 1,405 CU. YDS.



PROPOSED LOCATION  
PTS. #12-8 FEDERAL

TOPO.

MAP "B"

SCALE 1" = 2000'

ROAD CLASSIFICATION

Light-duty ————— Unimproved dirt - - - - -



QUADRANGLE LOCATION

UTAH

PROPOSED LOCATION  
PTS. #12-8 FEDERAL

PROPOSED ACCESS ROAD

EXISTING LOCATION

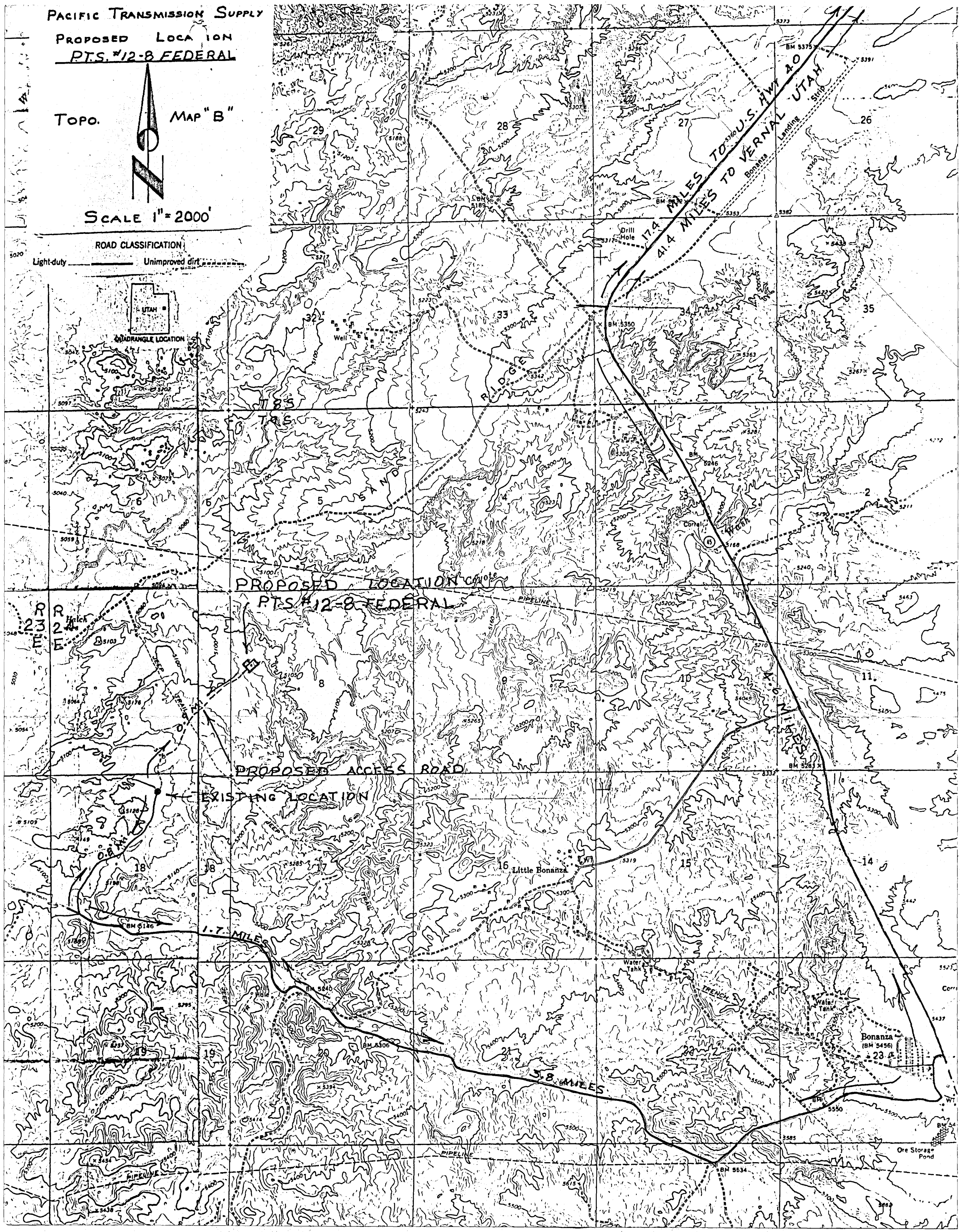
1.7 MILES

5.8 MILES

17.4 MILES TO U.S. HWY 40  
41.4 MILES TO VERNAL, UTAH

Bonanza (BM 5456)

Ore Storage Pond



CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Pacific Transmission Supply Well No. 12-8  
Location Sec. 8-9S-24E Lease No. U-0145459

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well, in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a

follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U.S. Geological Survey Area Office, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) ~~(are)~~ involved at this location. Accordingly, you (must) ~~(must)~~ notify this office and the Surface Management Agency at least 24 hours prior to commencing field operations to allow this office and/or the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is: Cory Bodman, BLM  
Office Phone: 801-789-1362, Home Phone: \_\_\_\_\_  
City: Vernal, State: Utah

The U.S. Geological Survey District Office address and contacts are:

Address: 2000 Administration Building, 1745 West 1700 South, S.L.C., UT 84104  
Office Phone (801) 524-4590

District Engineer	E. W. Guynn	Home Phone:	582-7042
Asst. Dist. Engineer	W. P. Martens	Home Phone:	466-2780
Asst. Dist. Engineer	R. A. Henricks	Home Phone:	484-2294

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This application is valid for a period of one year from the date of approval. No extensions will be considered. If the application terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SUPPLEMENTAL STIPULATIONS OF APPROVAL CONTINUED

Pacific Transmission Supply  
Well No. 12-8  
Sec. 8-9S-24E  
Uintah County, Utah  
Devils Playground Unit  
Lease No. U-0145459

Supplemental Stipulations:

1. The top 4 to 6 inches of soil materials will be stockpiled between points 1 and 2 of the location layout sheet.
2. The BLM must be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.
3. A burn pit will not be constructed. There will be no burning or burying of trash or garbage at the well site. Refuse must be contained and hauled to an approved disposal site.
4. A wire mesh or web type fence will be used around the reserve pits.
5. It was agreed to by all parties present that the applied-for pad dimensions are adequate to handle all drilling and fracturing operations.
6. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Green River formation. Cementing program for the 9-5/8" intermediate casing will require circulation of cement to the surface to adequately protect the Green River oil shale section and "Birds Nest" aquifer.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date:

Jan. 22 -

Operator:

Pacific Transmission

Well No:

Prod. 12-8

Location:

Sec. 8 T. 9S R. 24E County: Uintah

File Prepared:

☒

Entered on N.I.D.:

☒

Card Indexed:

☒

Completion Sheet:

☒

API NUMBER: 43-047-30567

CHECKED BY:

Administrative Assistant [Signature]

Remarks: Unit well -

Petroleum Engineer [Signature]

Remarks:

Director [Signature]

Remarks:

INCLUDE WITHIN APPROVAL LETTER.

Bond Required: ☒

Survey Plat Required: ☐

Order No. ☐

Surface Casing Change to ☐

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In Unit ☒

Other:

☒ Letter Written/Approved

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Pacific Transmission Supply Company

## 3. ADDRESS OF OPERATOR

P.O. Box 3093, Casper, Wyoming 82602

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

2052' FNL, 567' FWL, SW NW Section 8, T9S, R24E  
S.L.B. & M.

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

54 miles SE of Vernal, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

2052'

## 16. NO. OF ACRES IN LEASE

2240

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL  
16018. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

7000'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5141' Ungr. GR, 5155' KB (est.)

## 22. APPROX. DATE WORK WILL START\*

Upon receipt of approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48.0	150	200 Sxs.
12-1/4	9-5/8	36.0	3000	275 Sxs.
7-7/8	4-1/2	11.6	7000	As necessary to protect all productive intervals.

Operator proposes to drill 7000' or 1000' into the Mesaverde formation. Intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached prognosis and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Containment Data Specifications. If commercial production is encountered, production casing will be run and cemented to adequately protect all potentially productive intervals. No abnormal pressures or temperatures or other potential hazards are anticipated. Following commencement, drilling operations will continue for approximately 30 days.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

R. J. Firth

TITLE

Petroleum Engineer

DATE

October 10, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC, UT; 1-Div. of OG&amp;M, SLC, UT; 1-JLWroble; 1-ERHenry; 1-SEEMulholland; 1-File

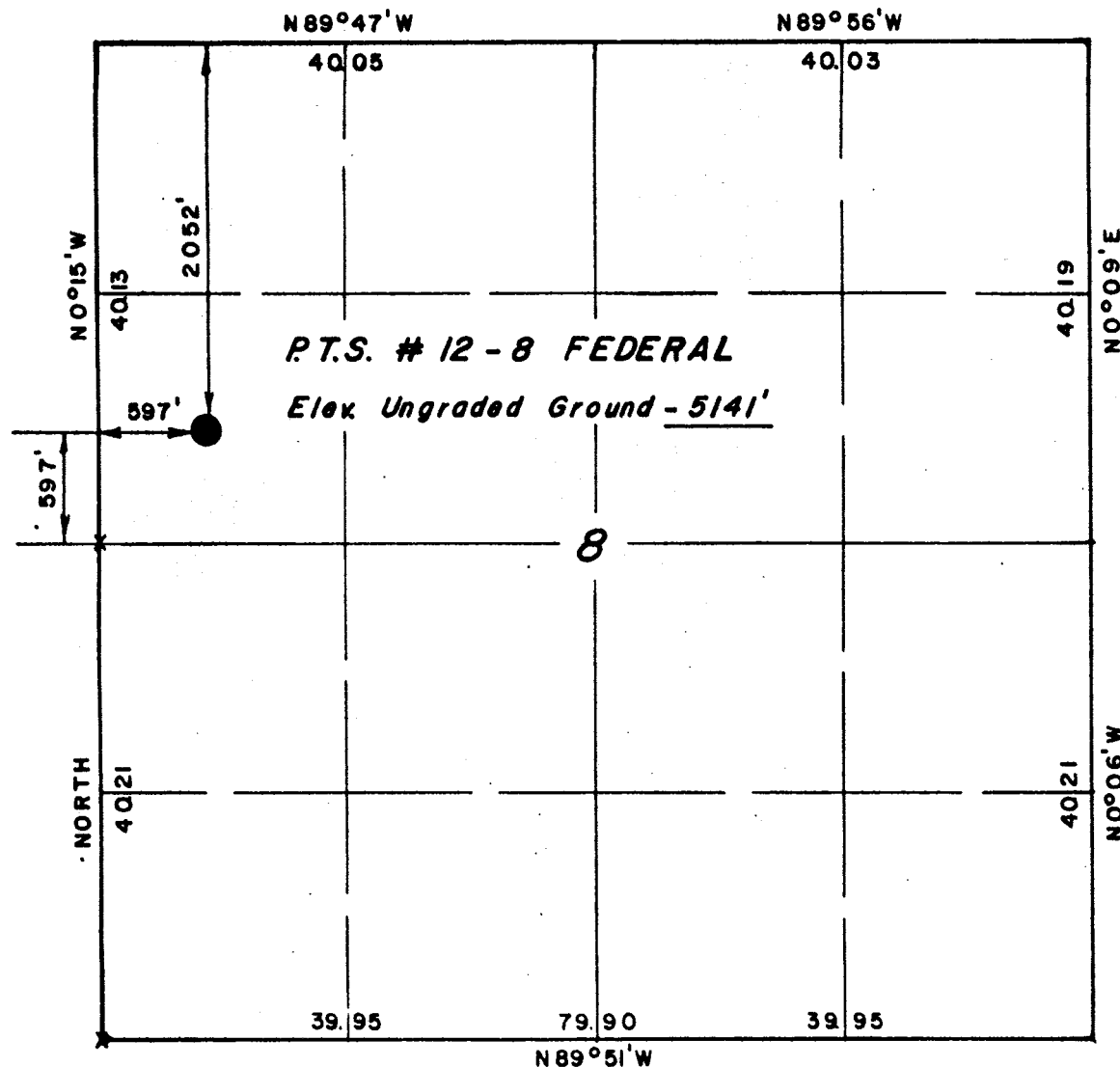
\*See Instructions On Reverse Side



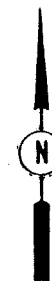
**T9S, R24E, S.L.B. & M.**

PROJECT  
**PACIFIC TRANSMISSION SUPPLY CO.**

Well location, **P.T.S. # 12-8 FEDERAL**  
located as shown in the SW 1/4 NW 1/4  
Section 8, T9S, R24E, S.L.B. & M. Uintah  
County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P O BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	12/6/78
PARTY	L.D.T. D.S. W.J. S.M.	REFERENCES	GLO Plat
WEATHER	Cold & Overcast	FILE	PACIFIC TRANSMISSION



## WELL PROGRAM

WELL: PTS #12-8 Federal

LOCATION: 2052' from the north line and 567' from the west line of Section 8, T9S, R24E, Uintah County, Utah.

ELEVATIONS: 5141' Ungr. Gr., 5155' KB (est.)

CONTRACTOR: To be selected.

OBJECTIVE: A depth of 7000' should be sufficient to penetrate 1000' into the Mesaverde.

<u>FORMATION TOPS:</u>	<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
	Green River		
	Parachute Creek	1615'	+3540
	H-Marker	3075'	+2080
	Wasatch	4175'	+ 980
	Mesayerde	5945'	- 790
	Total Depth	7000'	

SAMPLES: Collect cutting samples at ten (10) foot intervals from under surface to total depth. Samples will be collected by drilling crews for the wellsite geologist. Two (2) sets of samples will be collected in the oil shale section of the Green River formation with one (1) set to be sent to the Bureau of Mines, Laramie, Wyoming. Frequency of sample collection may be changed at the wellsite geologist's discretion.

### ELECTRICAL

SURVEYS: The following Logging Program will be employed.

150'-2500'	12-1/4" hole to 2500'. Run Dual Induction Laterolog, Borehole Compensated Sonic and Compensated Formation Density Logs.
2500'-7000'	7-7/8" hole below 9-5/8" casing. Run Dual Laterolog, Borehole Compensated Sonic and Compensated Formation Density Logs.

MUD LOGGER: A portable mud logging unit will be operated by the wellsite geologist from below surface casing to total depth.

### TESTING

PROGRAM: All significant shows of oil and gas will be drillstem tested. Use floor manifold with positive choke assembly, hydraulic jars, safety joint, reverse circulating sub, sampler assembly and dual packers. Collect samples of all fluids recovered for further analysis.

### CORING

PROGRAM: No coring operations are anticipated.

**DRILLING FLUID  
PROGRAM:**

<u>Interval (Feet)</u>	<u>Mud Weight (lbs/gal)</u>	<u>Viscosity (secs/qt)</u>	<u>Fluid Loss (cc's/30 min)</u>
0 - 150	-----AIR-----		
	Set 13-3/8" casing at 150'.		
150 - 2500	8.4 - 8.8	27 - 29	No Control
	Drill out surface casing with water, increasing the drilling fluid salinity to about 40,000 ppm NaCl. The salty water will improve hole stability by minimizing swelling shale tendencies and will allow cuttings to settle out rapidly. Utilize available solids control equipment and circulate reserve pit if possible. Occasional sweeps of pre-hydrated bentonite may be necessary to insure adequate hole cleaning while drilling 12-1/4" hole.		
	Set 9-5/8" intermediate casing at 2500'.		
2500 - 5800	8.6 - 8.9	27 - 34	No Control
	Drill out intermediate casing and continue drilling with 40,000 ppm salt water. Neglecting solids control when drilling with water can result in differential sticking in subnormally pressured, permeable zones. This is due to the thick wall cake which forms as a result of high fluid loss and relatively high solids content. Consequently, if the reserve pit cannot be included in the active system, precautions should be taken to prevent drilled solids from being recirculated. The mud tanks should be dumped and cleaned frequently and all available solids control equipment should be used. Occasional sweeps of pre-hydrated bentonite, salt gel or asbestos fiber should be used as necessary to clean the hole if tight connections are experienced or excessive fill is encountered. A drilling detergent might be used to provide lubricity and minimize bit balling.		
5800 - TD	8.9 - 9.6	32 - 36	12 cc's/less
	As it becomes necessary, or at approximately 5800' mud up with salt gel, prehydrated gel, a viscosifier and caustic soda. Drilling fluid salinity can be adjusted as necessary to increase mud weight without adding additional solids to the system.		
	Some loss of circulation is anticipated in this well. To avoid fracturing weak formations, keep the mud weight, yield point and gels low as possible. Care should be taken to minimize swab and surge pressures by avoiding excessive pipe speed while tripping in and out of the hole.		

Lost circulation should be handled with conventional types of lost circulation materials with fine mica recommended for minor losses. If severe losses are encountered requiring the use of lost circulation material that will not pass through the shaker screen, consider using pill treatments instead of maintaining lost circulation material in the system continuously. Lost circulation which cannot readily be controlled by more conventional means may justify the use of cement plugs.

A small stream of water should be run continuously while drilling and mud tanks should be cleaned frequently to minimize the recirculation of drilled solids and allow the addition of fresh materials to the system. Water should be reclaimed from the reserve pit to conserve water and also reduce some chemical additions.

Continue to total depth with this mud system, increasing the viscosity as necessary to provide proper hole cleaning. Well site interpretation of hole conditions will help determine the fluid properties necessary to ensure satisfactory operations.

<u>CASING PROGRAM:</u>	<u>Size, Wt. &amp; Grade</u>	<u>Setting Depth</u>	<u>Hole Size</u>	<u>Cement Requirements</u>
	13-3/8", 48.0#, H40 New	150'	17-1/2"	Approximately 200 sacks Class G w/3% Calcium Chloride
	9-5/8", 36.0#, K55 New	2500' ±	12-1/4"	Approximately 275 sacks. To be verified after caliper log is run.
	4-1/2", 11.6#, N80 New	7000'	7-7/8"	Amount will be determined after logs are run. Use regulated fillup and Class G type cements.

PRESSURE CONTROL EQUIPMENT and SPECIFICATIONS:

Adequate BOP equipment will be maintained as indicated in the attached Pressure Control Specifications. In addition, the BOP equipment will be well-braced with hand controls extending clear of the drilling rig substructure. The accumulator equipment will provide closing pressure in excess of that required with sufficient volume to operate all components. All BOP equipment, auxiliary equipment, standpipe, valves, and rotary hose will be tested as per test schedule or to the rated pressure of the equipment at the time of installation. Modification of the pressure control equipment or testing procedure will be approved in writing on tour sheets by the wellsite representative.

## DRILLING PROCEDURE

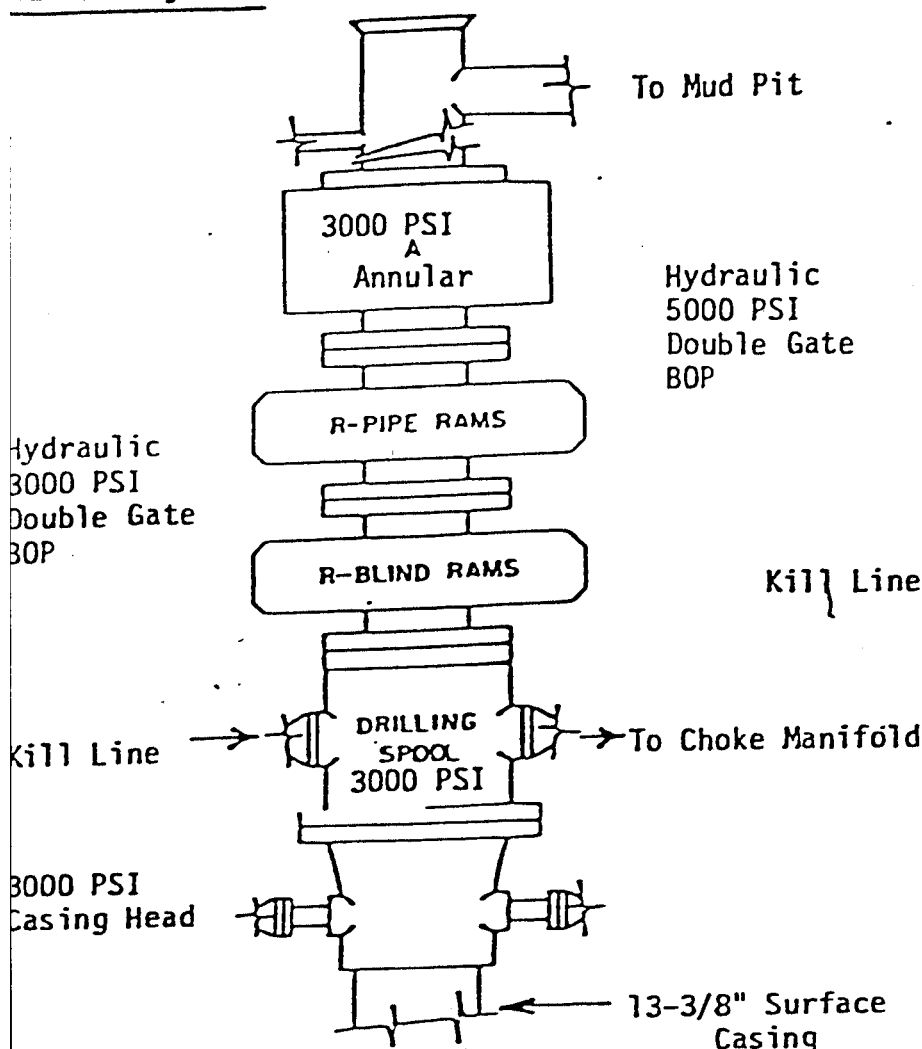
### PTS #12-8

- 1) Move in air percussion rig and drill 17-1/2" hole to 150'. Set and cement 13-3/8", 48.0#, H-40 casing to surface with approximately 200 sacks cement.
- 2) Move in rotary drilling rig and equipment. Cut off 13-3/8" casing and install 3000# casing flange. Install BOP equipment per BOP and Pressure Containment Data. Pressure test BOP's, manifold and all valves to 2500# and annular preventer to 2000# prior to drilling casing shoe. Drill 12-1/4" hole to 2500' (+). Conduct electric logging and prepare hole for intermediate casing.
- 3) Set and cement 9-5/8", 36.0#, K-55 intermediate casing sufficiently to protect any water, oil, gas or other mineral-bearing formations. WOC.
- 4) Land casing and install intermediate spool. Install BOP equipment and retest prior to drilling casing shoe.
- 5) Drill 7-7/8" hole to total depth. Perform drill-stem testing as warranted. Conduct electric logging and prepare hole for production casing.
- 6) Run 4-1/2", 11.6#, N-80 production casing and cement as necessary across potential zones. The length of the cement column will be determined after the logs have been evaluated.
- 7) Release rotary drilling rig and determine completion procedure.

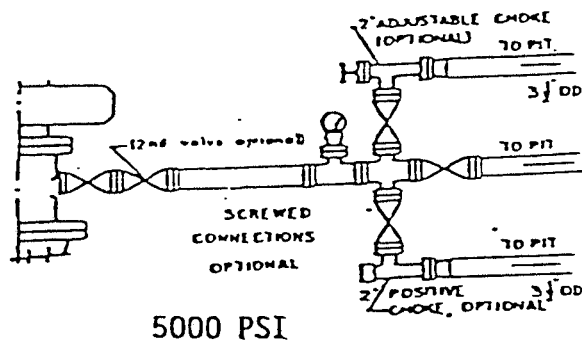
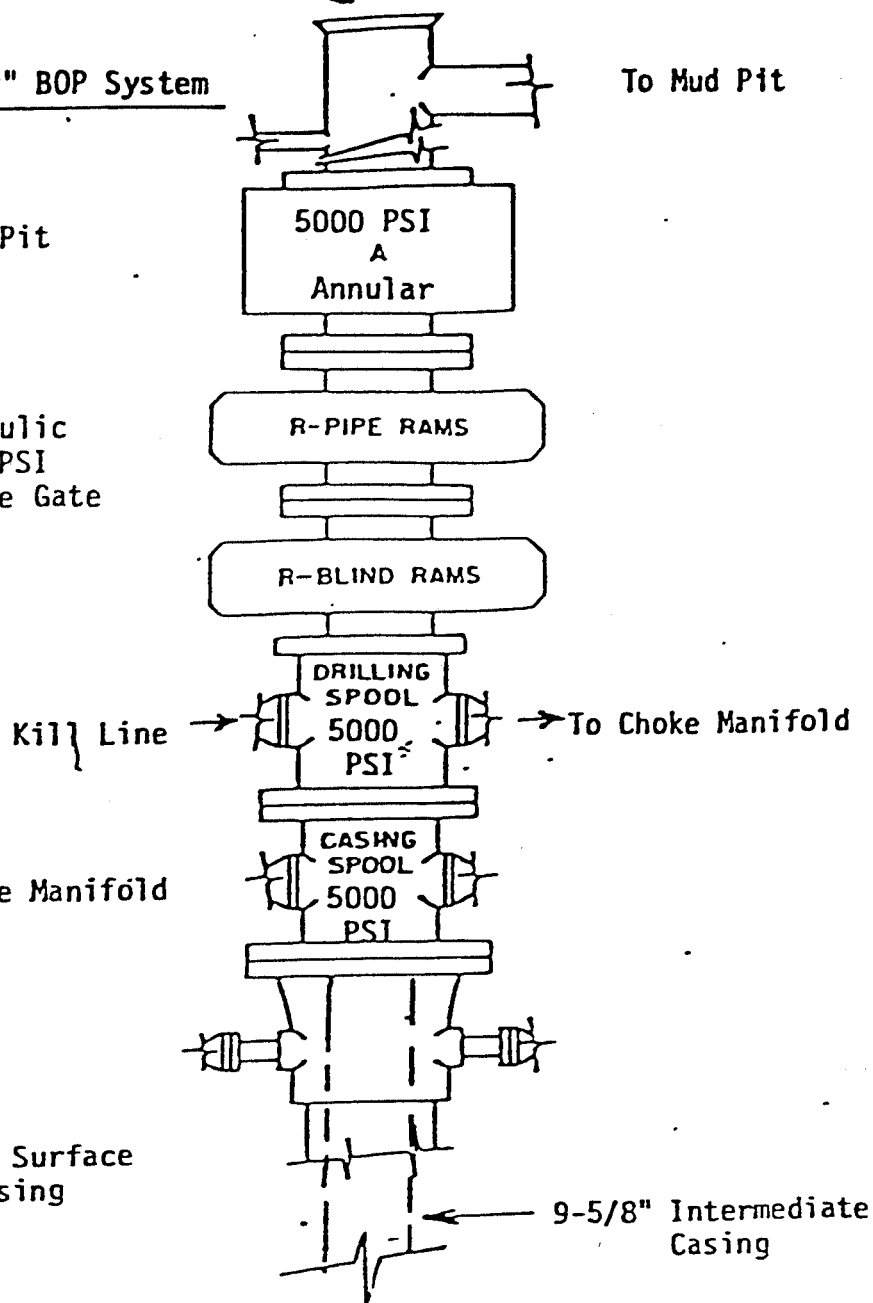
### Special Instructions:

- 1) Run deviation surveys at regular intervals and in conjunction with bit trips.
- 2) Utilize a degasser and necessary solids control equipment.
- 3) Avoid surging hole on trips and fill hole properly when pulling pipe.
- 4) All crew members should be familiar with BOP operations. Functional test pipe rams daily and close blind rams each trip out of the hole.
- 5) Drilling crews should observe to detect either decrease or increase in fluid level.
- 6) A regular daily mud check should be made by mud engineer.
- 7) Drill stem testing will be determined by the well site geologist.

12" BOP System



10" BOP System



CHOKE-MANIFOLD DESIGN

TEST SCHEDULE

12" BOP System & 13-3/8" Casing  
to 2500 PSI.

10" BOP System & Choke Manifold  
to 5000 PSI.

9-5/8" Casing to 3500 PSI.

Auxiliary Equipment

Lower kelly cock, full opening stabbing valve, and mud monitoring system including pit level indicators and/or flow sensor with alarms.

Personnel & Mailing Information:

Dee E. Beardsley, Manager of Operations  
Pacific Transmission Supply Company  
P.O. Box 3093  
Casper, Wyoming 82602  
Telephone: Office (307) 265-1027  
Home (307) 234-7666

E. E. Mulholland, Operations Engineer  
Pacific Transmission Supply Company  
P.O. Box 3093  
Casper, Wyoming 82602  
Telephone: Office (307) 265-1027  
Home (307) 265-4191

R. J. Firth  
Pacific Transmission Supply Company  
85 South 200 East  
Vernal, Utah 84078  
Telephone: Office (801) 789-4573  
Home (801) 789-5575

Notification of Shows, DST's and Unusual Problems:

Dee E. Beardsley	Office: 307-265-1027	Home: 307-234-7666
J. L. Wroble	303-571-1662	303-770-2667
E. E. Mulholland	307-265-1027	307-265-4191
R. J. Firth	801-789-4573	801-789-5575

Distribution of Information:

Pacific Transmission Supply Company  
P.O. Box 3093  
Casper, Wyoming 82602  
Attn: Mr. D. E. Beardsley

Pacific Transmission Supply Company  
85 South 200 East  
Vernal, Utah 84078  
Attn: Mr. R. J. Firth

Pacific Transmission Supply Company  
717 Seventeenth Street, Suite 2300  
Denver, Colorado 80202  
Attn: Mr. J. L. Wroble

United States Geological Survey  
Conservation Division  
Branch of Oil and Gas  
8440 Federal Bldg.  
125 South State Street  
Salt Lake City, Utah 84138  
Attn: Mr. E. W. Guynn

State of Utah  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116  
Attn: Chief Petroleum Engineer

PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

for

Well Location

P.T.S. #12-8 Federal

Located In

Section 8, T9S, R24E, S.L.B. & M.

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Map "A", to reach the Pacific Transmission Supply Company well location, P.T.S. #12-8 Federal, located in Section 8, T9S, R24E, S.L.B. & M., from Vernal, Utah.

Proceed East out of Vernal, Utah along U.S. Highway 40, 24 miles to the junction of this Highway and Utah State Highway 45 to the South; proceed South along this road 22 miles to Bonanza, Utah and the junction of this road and a gravel surface road to the West; proceed Westerly along this road 5.5 miles to the junction of this road and a road to the North; proceed Northerly along this road 0.8 miles to an existing well and the proposed access road to be discussed in Item #2.

There is no construction anticipated on any portion of the above described road. It will meet the standards necessary, for the hauling of equipment during the drilling and production of this well.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing access road described in Item #1 in the NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 18, T9S, R24E, S.L.B. & M., and proceeds in a Northeasterly direction 1.9 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be  $1\frac{1}{2}$  to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during the construction.

If deemed necessary by the local governmental agencies or their representatives turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet ends.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.



2. PLANNED ACCESS ROAD - continued

The terrain that is traversed by this road is relatively flat and crosses some small hills and washes and is vegetated with sparse amounts of sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of Pacific Transmission Supply Company, well within the Section).

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no Pacific Transmission Supply Company flow gathering, injection or disposal lines within a one mile radius of this location.

In the event production is established, plans for a gas flow line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

The rehabilitation of the disturbed area that is not required for the production of this well, will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water for this well will be hauled by truck from Bonanza, Utah from a water well owned by American Gilsonite, approximately 7 miles to the East from the proposed well site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

The pits will have overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling this reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

All waste and garbage will be hauled to a sanitary land fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. See location layout sheet and Item #9. When all drilling production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pit will be completely fenced and wired and overhead flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

10. PLANS FOR RESTORATION OF SURFACE - continued

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Item #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A")

The area is a basin formed by the Blue Mountain Plateau and Green River to the North and White River and Roan Plateau to the South.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstones, conglomerates, and shale deposits are extremely common to the area.

The geologic structure of the area that are visible are of the Uintah Formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger Alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) type soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The White River to the South of the location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area - (See Topographic Map "B").

P.T.S. #12-8 Federal is located at the base of the relatively unlevel hill side which slopes to the North.

The majority of the drainages in the area around this location run in a Northerly direction into Coyote Wash which is a tributary to the White River and are non-perennial streams.

11. OTHER INFORMATION - continued

The terrain in the vicinity of the location slopes to the North from a small ridge through the location site at approximately a 2% grade into a small wash to the Northwest.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush and grasses. There are no occupied dwelling or other facilities of this nature in the general area. There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

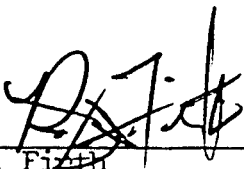
R.J. Firth  
85 South 200 East  
Vernal, Utah 84078

Tele: 789-4573

13. CERTIFICATION

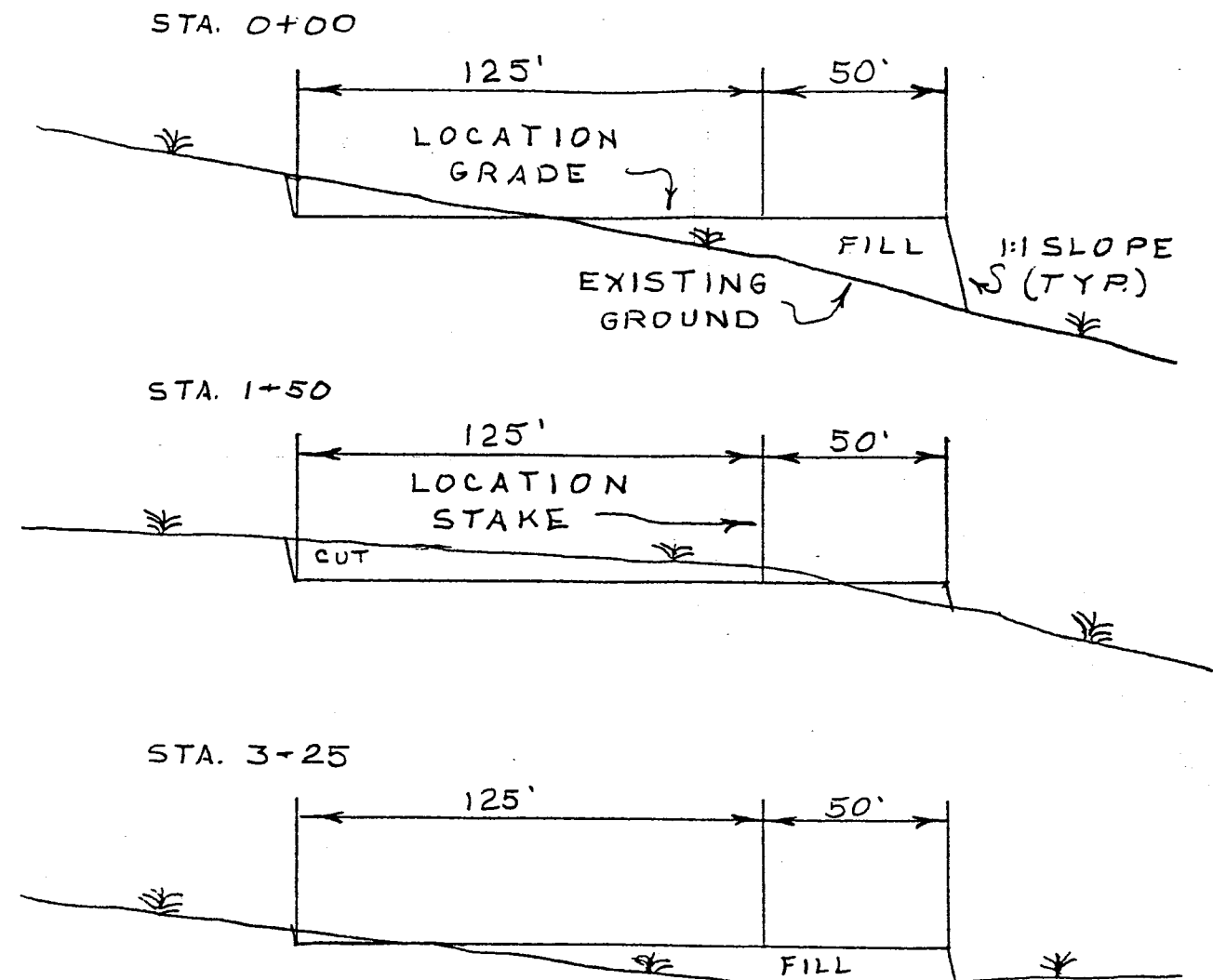
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Company and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

9-25-79  
DATE

  
R.J. Firth  
Petroleum Engineer

P.T.S. # 12-B FEDERAL  
LOCATION LAYOUT & CUT SHEET  
SEC. 8, T9S, R24E, S.L.B. & M.

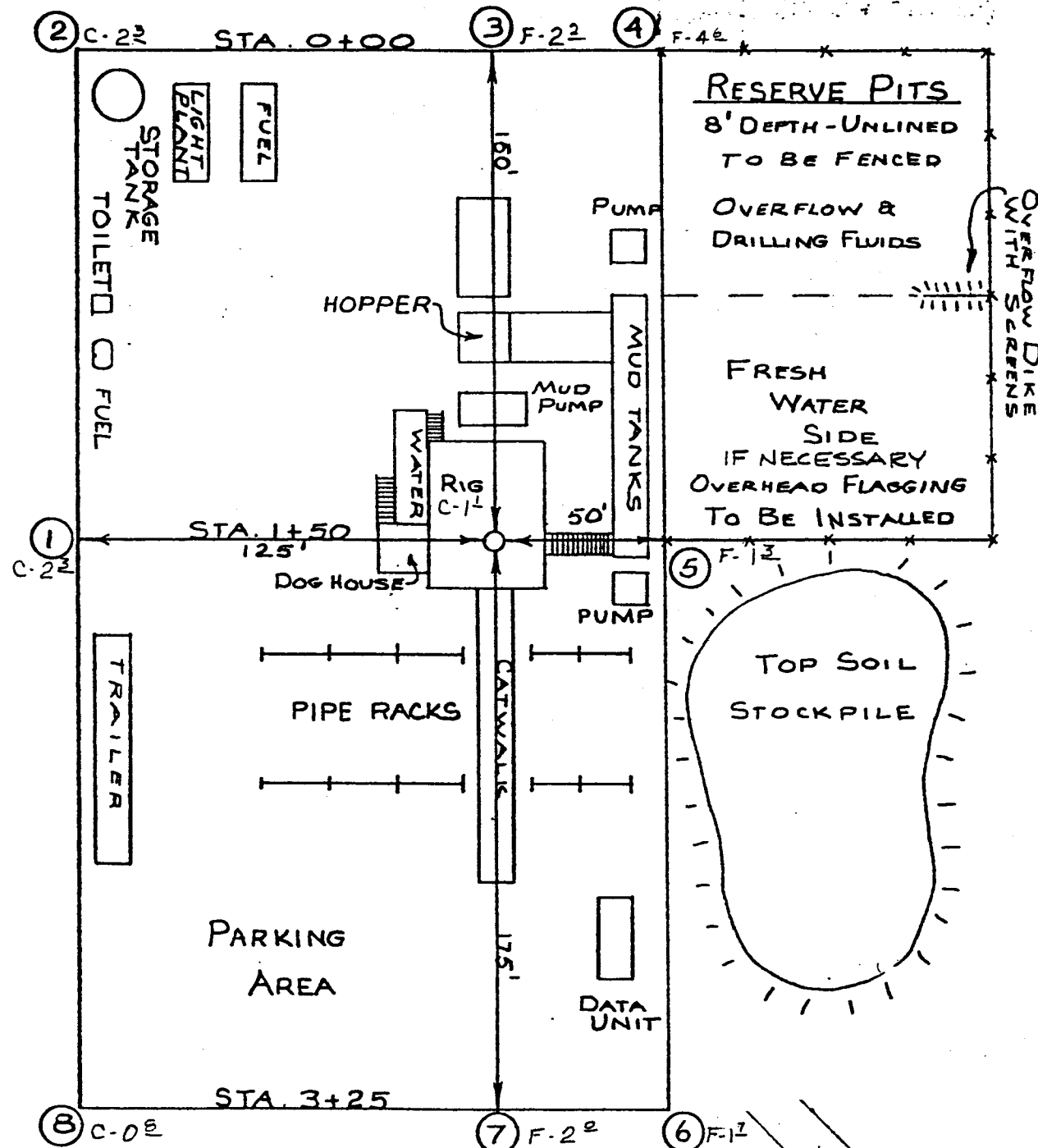
CROSS  
SECTIONS



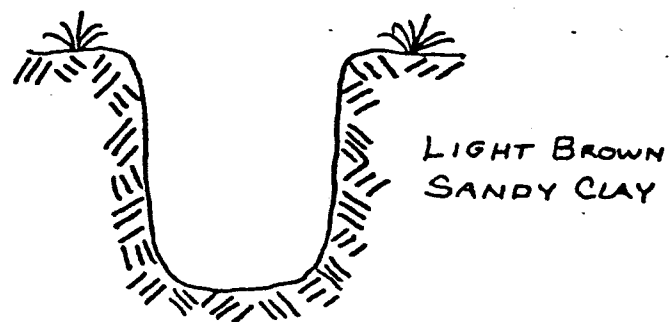
SCALE  
1" = 50'

APPROX YARDAGES

CUT - 1,608 CU. YDS.  
FILL - 1,405 CU. YDS.



SOILS LITHOLOGY  
- NO SCALE -



SCALE 1" = 50'

Topo.

MAP "B"



SCALE 1" = 2000'

### ROAD CLASSIFICATION

### Light-duty

Unimproved dirt



DEADEND LOCATION

PROPOSED LOCATION  
PTS # 12-8-FEDERAL

PROPOSED ACCESS ROAD

EXISTING LOCATION

8x612ES

1.7 MILE

Little Bonanza

**Bonanza**  
(BN 5456)

Ore Storage Pond



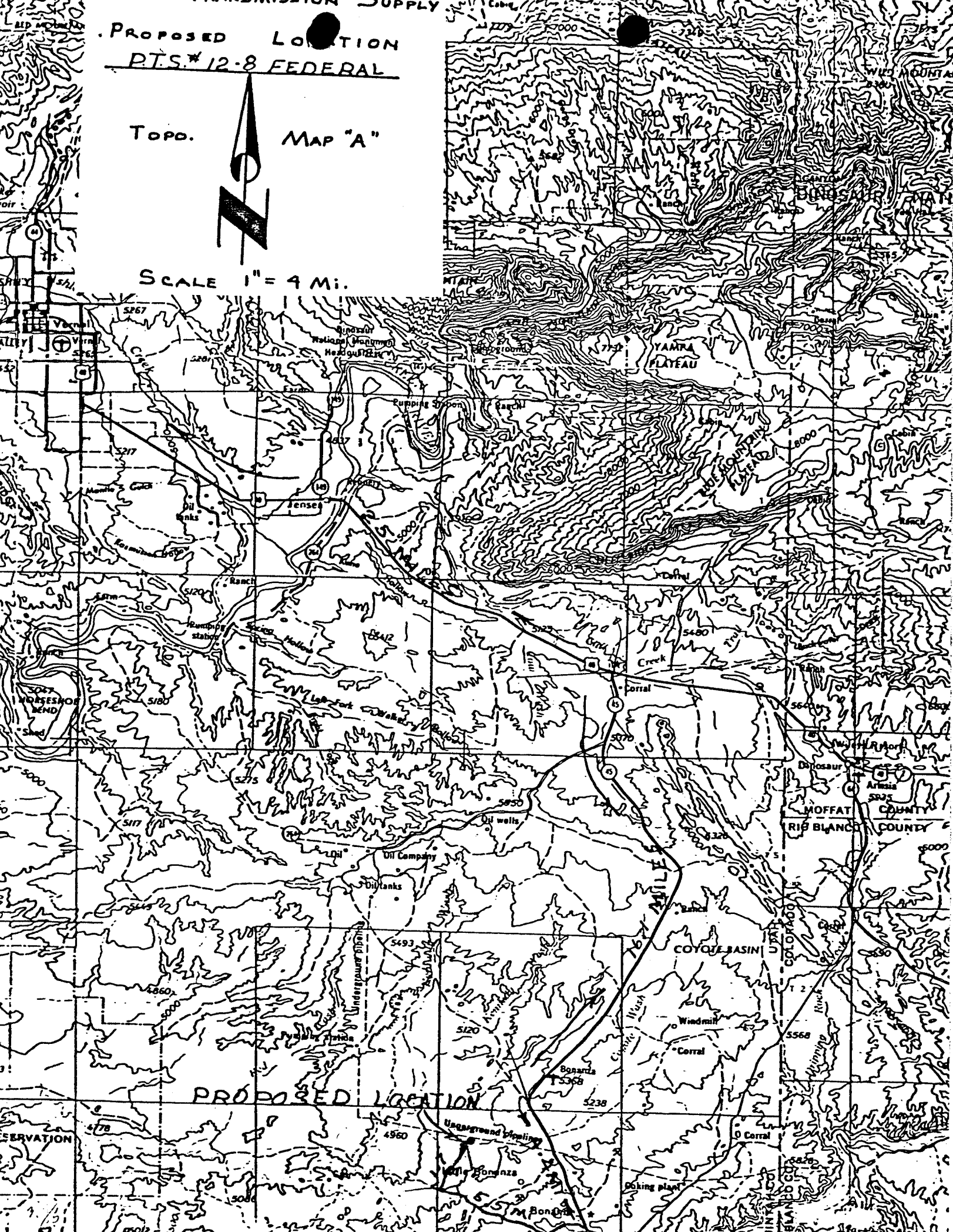
PROPOSED LOCATION  
P.T.S. #12-8 FEDERAL

TOPO.

MAP "A"



SCALE 1" = 4 Mi.



PACIFIC TRANSMISSION SUPPLY COMPANY

SUPPLEMENT

to

13 Point Surface Use Plan

Well Location

P.T.S. #12-8

Section 8, T9S, R24E, S.L.B. & M.

Uintah County, Utah



## 2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing access road described in Item #1 in the NW 1/4 NE 1/4 Section 18, T9S, R24E, S.L.B. & M., and proceeds in a north-easterly direction 1.9 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

(5) No major cuts, fills or culverts are necessary for constructing the proposed access road.

## 3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", the other known wells within a one mile radius are identified as follows:

- (1) Water Wells - None
- (2) Abandoned Wells - None
- (3) Temporarily abandoned wells - None
- (4) Disposal Wells - None
- (5) Drilling Wells - None
- (6) Producing Wells - 1 (one), PTS #1-18, NW NE, Section 18, T9S, R24E, S.L.B. & M., Uintah County, Utah.
- (7) Shut in Wells - None
- (8) Injection Wells - None
- (9) Monitoring or observation wells for other purposes - None

## 4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING LINES AND SERVICE LINES

B. In the event production is established:

(1) Any plans for a gas flow line from this location to existing gathering lines or a main production line will be submitted to the appropriate agencies for approval.

(2) All production facilities will be located on the existing pad.

(3) Construction materials will be native borrow or cut exposed on the site, and will be consistent with accepted oil field standards and good engineering practices.

(4) As described in Item 7, the reserve pit will be fenced on three sides during drilling and completion operations and will be rehabilitated to conform with the provisions of plans for surface restorations. In the event a disposal pit is required for producing this well, it will be completely fenced to protect livestock and wildlife.

## 5. LOCATION OF AND TYPE OF WATER SUPPLY

B. Water required for drilling operations will be transported by truck over the existing and proposed access roads from Bonanza, Utah. No additional roads or pipelines will be required.

C. No water well will be drilled on the location site or lease.

PACIFIC TRANSMISSION SUPPLY COMPANY  
P.T.S. #12-8 Federal  
Section 8, T9S, R24E, S.L.B. & M.

6. SOURCE OF CONSTRUCTION MATERIALS

B. Construction materials will be obtained from Federal lands.

D. The proposed access road under Item 2 will be crossing Federal lands.

7. METHODS OF HANDLING WASTE DISPOSAL

(5) Garbage and other waste materials will be contained in an enclosed wire mesh trash bin on the location and hauled to the nearest sanitary land fill as necessary.

9. WELL SITE LAYOUT

(2) Described in Item 7.

(3) The access road enters the location from the southwest or at approximately point 3 on the attached Location Layout and Cut Sheet.

10. PLANS FOR RESTORATION OF SURFACE

(4) Any appreciable amount of oil on the reserve pit will be removed prior to restoration activities.

11. OTHER INFORMATION

(2) The surface area is used primarily for grazing domestic sheep and cattle.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

DUPLICATE COPY

5. LEASE DESIGNATION AND SERIAL NO.

v 0145459

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Pacific Transmission Supply Company

## 3. ADDRESS OF OPERATOR

P.O. Box 3093, Casper, Wyoming 82602

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

2052' FNL, 567' FWL, SW NW Section 8, T9S, R24E

At proposed prod. zone

S.L.B. &amp; M.

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

Devils Playground

## 8. FARM OR LEASE NAME

Federal

## 9. WELL NO.

12-8

## 10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Section 8, T9S, R24E

## 12. COUNTY OR PARISH

Uintah

## 13. STATE

Utah

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

54 miles SE of Vernal, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

2052'

## 16. NO. OF ACRES IN LEASE

2240

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

7000'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5141' Ungr. GR, 5155' KB (est.)

## 22. APPROX. DATE WORK WILL START\*

Upon receipt of approval

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48.0	150	200 Sxs.
12-1/4	9-5/8	36.0	3000	275 Sxs.
7-7/8	4-1/2	11.6	7000	As necessary to protect all productive intervals.

Operator proposes to drill 7000' or 1000' into the Mesaverde formation. Intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached prognosis and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Containment Data Specifications. If commercial production is encountered, production casing will be run and cemented to adequately protect all potentially productive intervals. No abnormal pressures or temperatures or other potential hazards are anticipated. Following commencement, drilling operations will continue for approximately 30 days.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

R. J. Firth

TITLE

Petroleum Engineer

DIVISION OF  
OIL, GAS & MINING  
DATE FEB 11 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

W. J. Martin

TITLE

ACTING DISTRICT ENGINEER

DATE

FEB 06 1980

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC, UT; 1-Div. of OG&amp;M, SLC, UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPYFLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A  
DATED 1/1/80

Utah O. G.

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. 40145459

OPERATOR: Pacific Transmission Supply

WELL NO. 12-8

LOCATION:  $\frac{1}{2}$  SW  $\frac{1}{2}$  NW  $\frac{1}{2}$  sec. 8, T. 9S, R. 24E, SLM

Utah County, Utah

1. Stratigraphy:

surface - Uintah Fm.

Green River - 1100'

other tops reasonable

2. Fresh Water:

useable water at top of Parachute Creek (1600') and  
in basal 1000' of Green River (3200'-4200')

3. Leasable Minerals:

oil shale in Parachute Creek 1600-2800'

(mahogany zone at approximately 2130')

oil & gas in Wasatch and mesa verde

4. Additional Logs Needed:


adequate

5. Potential Geologic Hazards:

slight geopressuring (up to ~0.5 psi/ft) from mid-Wasatch  
to TD

6. References and Remarks: O&G Journal 1-16-78

Signature:



Date: 2 - 2 - 79

EA #29-80

## Usual Environmental Analysis

### Participants and Organizations:

Noted - G. Diwachak

Proposed Action:

On October 16, 1979, Pacific Transmission Supply Company filed an Application for Permit to Drill the No. 12-8 development well, a 7000 foot gas test of the Wasatch and Mesaverde Formations, located at an elevation of 5154 feet in the SW/4 NW/4 Section 8 T9S, R24E on Federal mineral lands and public surface, lease No.U-0145459. There was no objection to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Sub-surface Plan are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the BLM the controlling surface agency. Rehabilitation plans would be decided upon as well neared completion, the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 175 feet wide x 325 feet long and reserve a pit 100 feet x 150 feet. An existing trail would be upgraded to 18 feet wide by .9 miles long from a maintained road. This upgraded road would be crowned and any needed drainage ditches would be constructed as indicated by the 13 Point Plan in the APD. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drillsite is approximately 54 miles southeast of Vernal, Utah, the nearest town. A fair road runs to within .9 miles of the location. This well is in the Devils Playground Unit.

Topography:

The location is on a long flat ridge with a small valley located to the east of the proposed pad.

Geology:

The surface geology is the Green River Formation.

The soil is a sandy clay with traces of shale and sandstone gravels.

No geologic hazards are known near the drillsite.

Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric and density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist and is possible in the sandstone units of the Mesa Verde. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formations to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey Engineers and determined to be adequate.

SOILS:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access road per the recommendations of the Bureau of Land Management.

Approximately 3.6 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

#### Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated. ✓

#### Precipitation:

Annual rain fall should range from about 8" to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.



Surface Water Hydrology:

The drainage is northeast to Coyote Wash and from there to the White River. The White River is a tributary of the Green River. The drainages proceeding from the location are all non-perennial until they reach the White River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks and spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

The vegetation of the area consists of sagebrush, cactus, native grasses, greasewood and other desert shrub typed.

Proposed action would remove about 3.6 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominately of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used

by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigation the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operations may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would not be visible to passersby of the area but would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding,

etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Bonanza Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

#### Waste Disposal:

The mud and reserve pits would contain all fluids used during the drilling operations. A trash cage would be utilized for any solid wastes generated at the site and would be hauled away at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

#### Alternative to the Proposed Action:

1). Not approving the proposed permit -- the oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2). Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetation, animal or archaeological-historical-cultural

conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Mitigative Measures and Stipulations:

Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

- A. The topsoil would be stockpiled behind station 1 and corner 8 rather than in front of station 5 and corner 6, as indicated in the location layout diagram.


Adverse Environmental Effects Which Cannot Be Avoided:

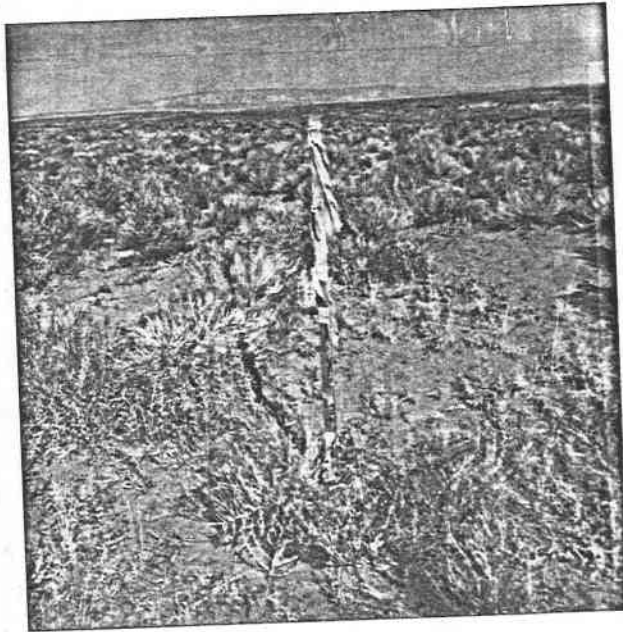
Surface disturbance and removal of vegetation from approximately 3.6 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the White River. The potential for pollution to the White River would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, 102 (2) (C).

12/26/79  
Date

  
District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil and Gas Operations  
Salt Lake City District



Well 12-8 PTS  
Sec. 8, T. 9 S., R. 24 E.

Conservation Division  
2000 Administration Building  
1440 East 100 South  
Salt Lake City, Utah 84104

April 2, 1981

Pacific Transmission Supply Company  
P.O. Box 3003  
Casper, Wyoming 82402

Re: Return Application for  
Permit to Drill  
Well No. 12-8  
Section 8, T. 9S., R. 24E.  
Winah County, Utah  
Lease No. U-0145459  
Application Approved: February 6, 1980

Gentlemen:

The Application for Permit to Drill the referenced well was approved. Since that time no return activity has transpired at the approved location. Your current District policy application's for permit to drill are effective for a period of one year. In view of the foregoing this office is requesting the removal of the referenced application without prejudice. If you intend to drill at this location on a future date a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must, then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

(Wife, Sign) R. A. Henriks

for  
C. R. Gwyn  
District Oil & Gas Supervisor

cc: DCR, CR, DSG, Denver  
BIA Vernal  
State Office (D&G)  
State Office (BLM)  
USGS Vernal  
Well File  
ADP Control

RAH/TW/LM

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Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

April 2, 1961

Pacific Transwestern Supply Company  
P.O. Box 2108  
Casper, Wyoming 82402

Re: Return Application for  
Permit to Drill  
Well No. 12-B  
Section 8, T. 9S., R. 24E.  
Uintah County, Utah  
Lease No. U-0145459  
Application Approved February 6, 1960

Sir:

The Application for Permit to Drill the referenced well was approved. This well is to be used for oil and gas activities at the approved location. Under current regulations, your application for permit to drill one additional well on the same lease is subject to the approval of the Bureau of Land Management. If you intend to drill at this location on a future date, you must submit an application for permit to drill and be approved.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

Wm. Earl R. A. Hendricks

W. E. Hendricks  
District Office Supervisor

cc: R. E. CR, BSC, B. L. B.  
Bismarck  
State Office (BSC)  
State Office (BLM)  
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Wm. Earl R. A. Hendricks

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